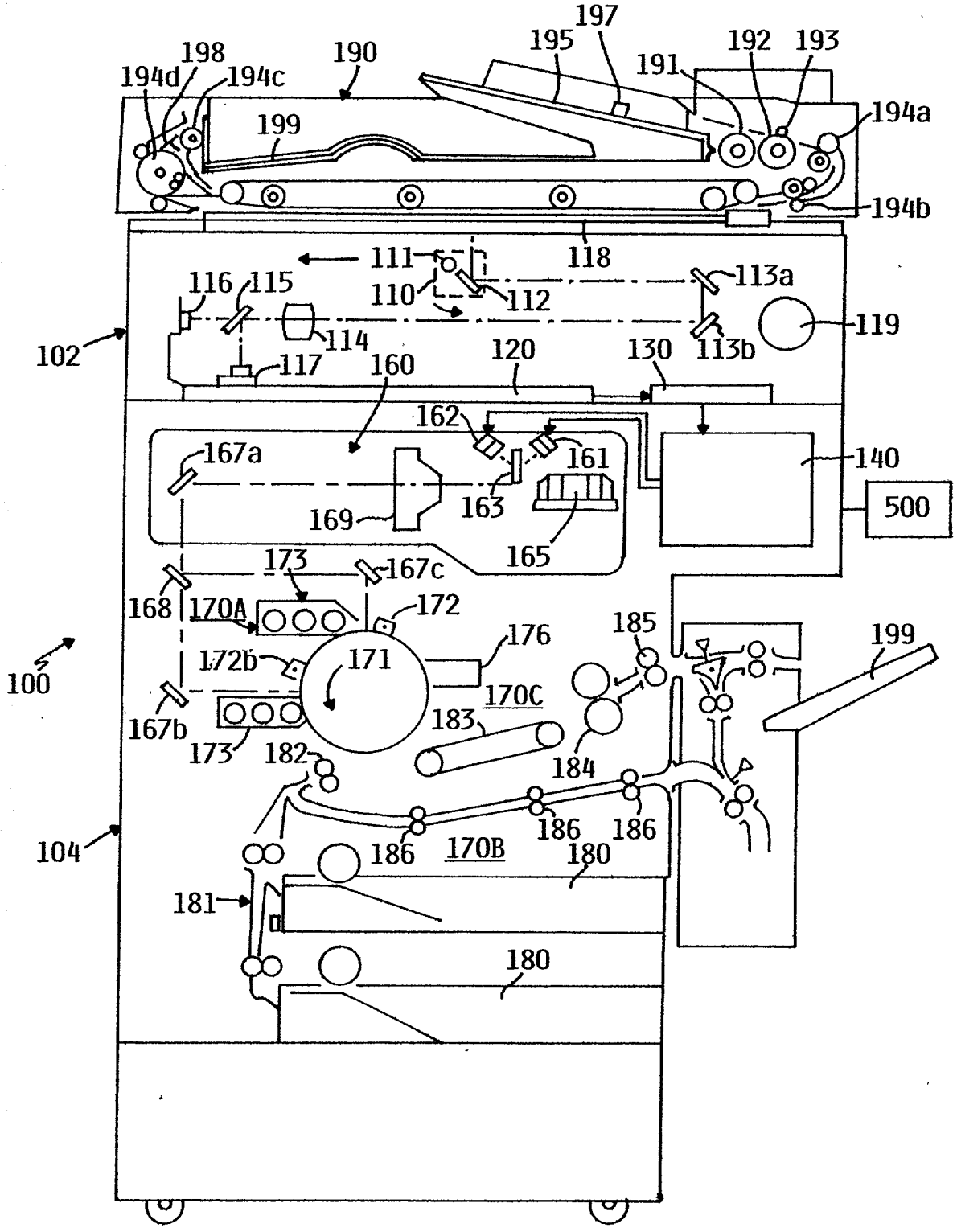
197
195
198
190
192
193
194d
194c
191
194a
199
194b
111
118
116
115
110
112
113a
102
114
119
117
160
120
130
113b
162
167a
161
140
169
163
500
165
173
167c
168
170A
172
185
176
199
100
172b
171
170C
167b
183
173
182
184
186
186
186
104
170B
180
181
180

FIG. 1

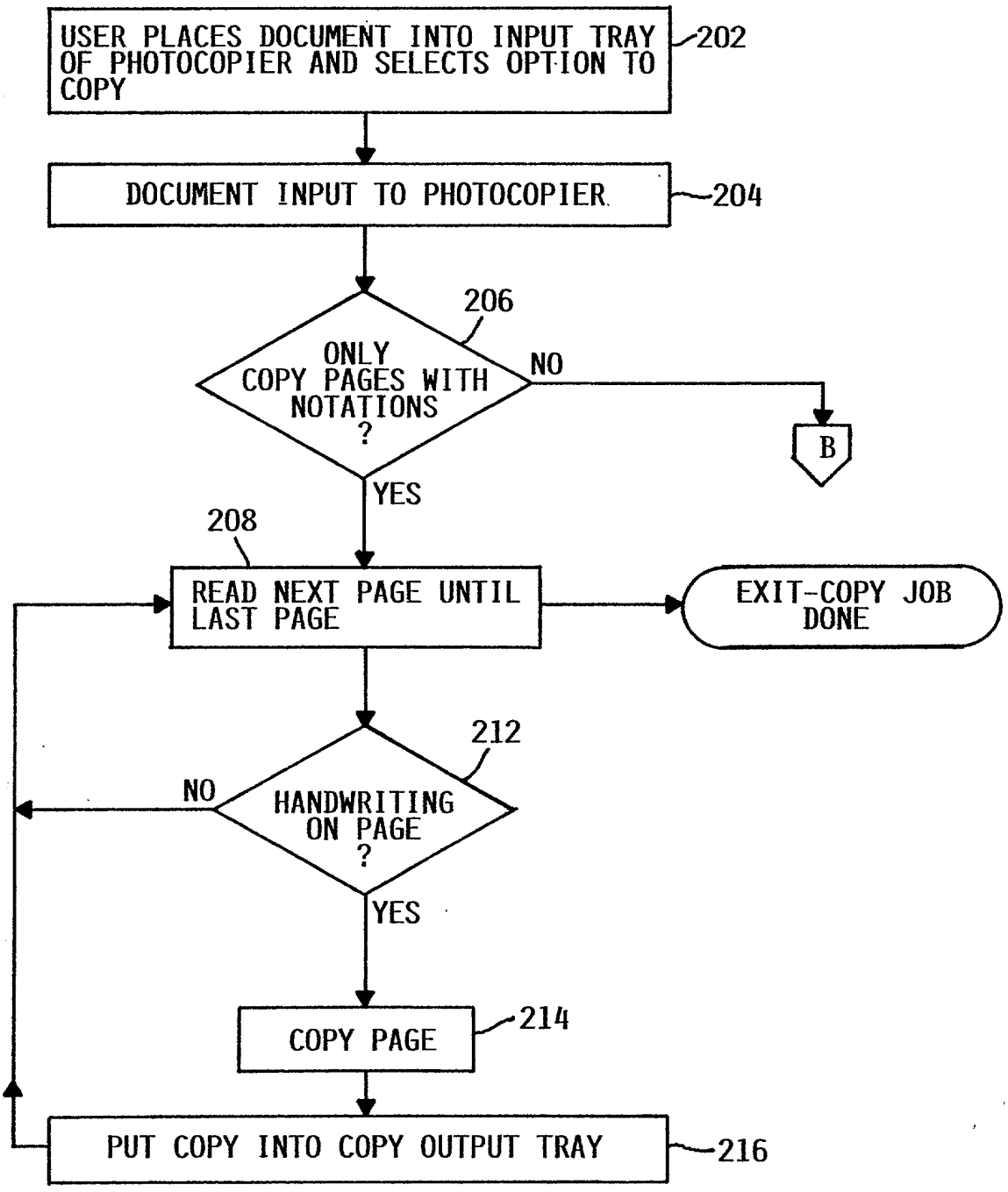
USER PLACES DOCUMENT INTO INPUT TRAY OF PHOTOCOPIER AND SELECTS OPTION TO COPY
202
DOCUMENT INPUT TO PHOTOCOPIER
204
206
ONLY COPY PAGES WITH NOTATIONS ?
NO
B
YES
208
READ NEXT PAGE UNTIL LAST PAGE
EXIT-COPY JOB DONE
212
NO
HANDWRITING ON PAGE ?
YES
COPY PAGE
214
PUT COPY INTO COPY OUTPUT TRAY
216

FIG. 2A

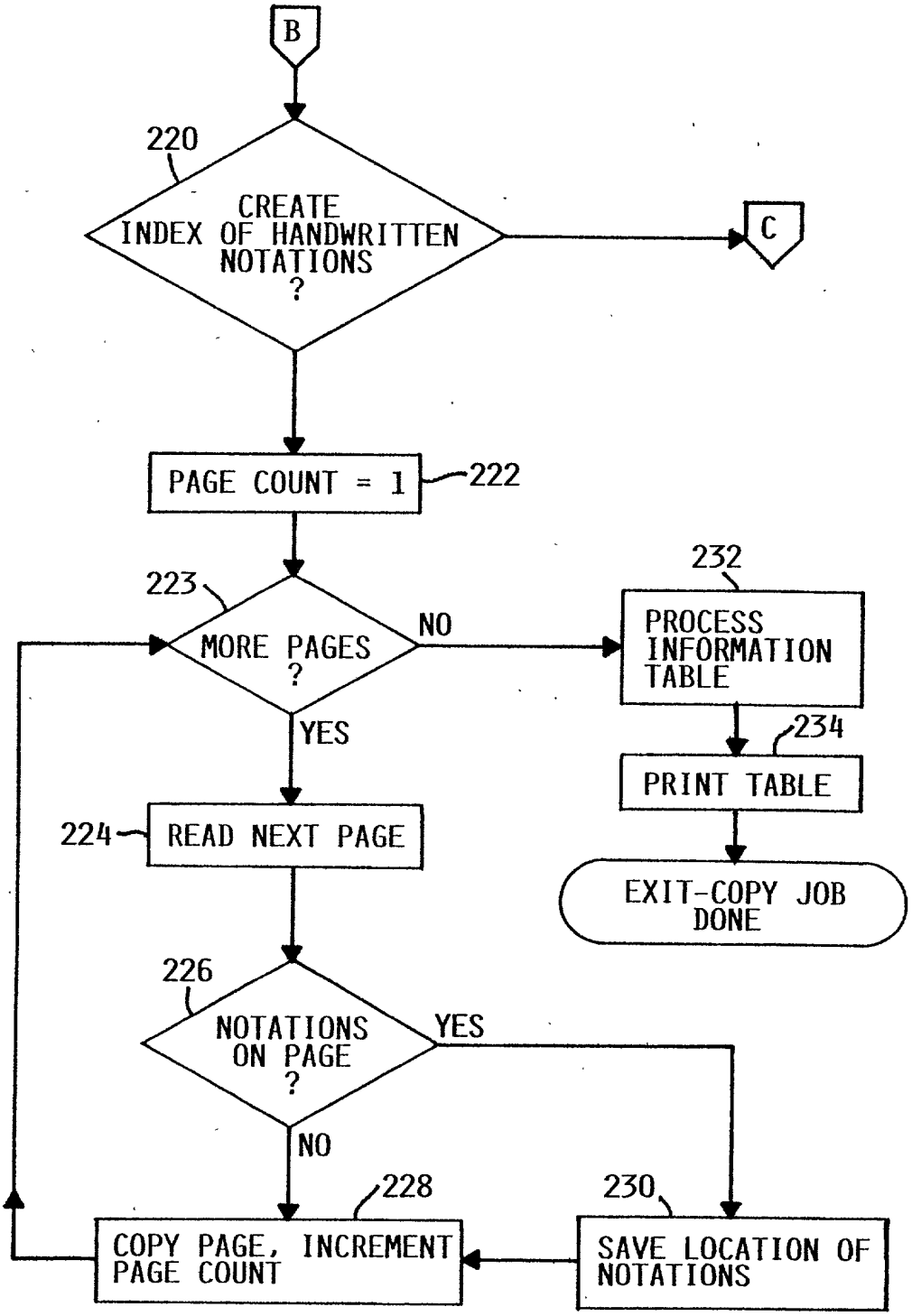
B
220
CREATE INDEX OF HANDWRITTEN NOTATIONS ?
C
PAGE COUNT = 1
222
223
MORE PAGES ?
NO
232
PROCESS INFORMATION TABLE
234
PRINT TABLE
EXIT-COPY JOB DONE
YES
224
READ NEXT PAGE
226
NOTATIONS ON PAGE ?
YES
NO
228
230
COPY PAGE, INCREMENT PAGE COUNT
SAVE LOCATION OF NOTATIONS

FIG. 2B

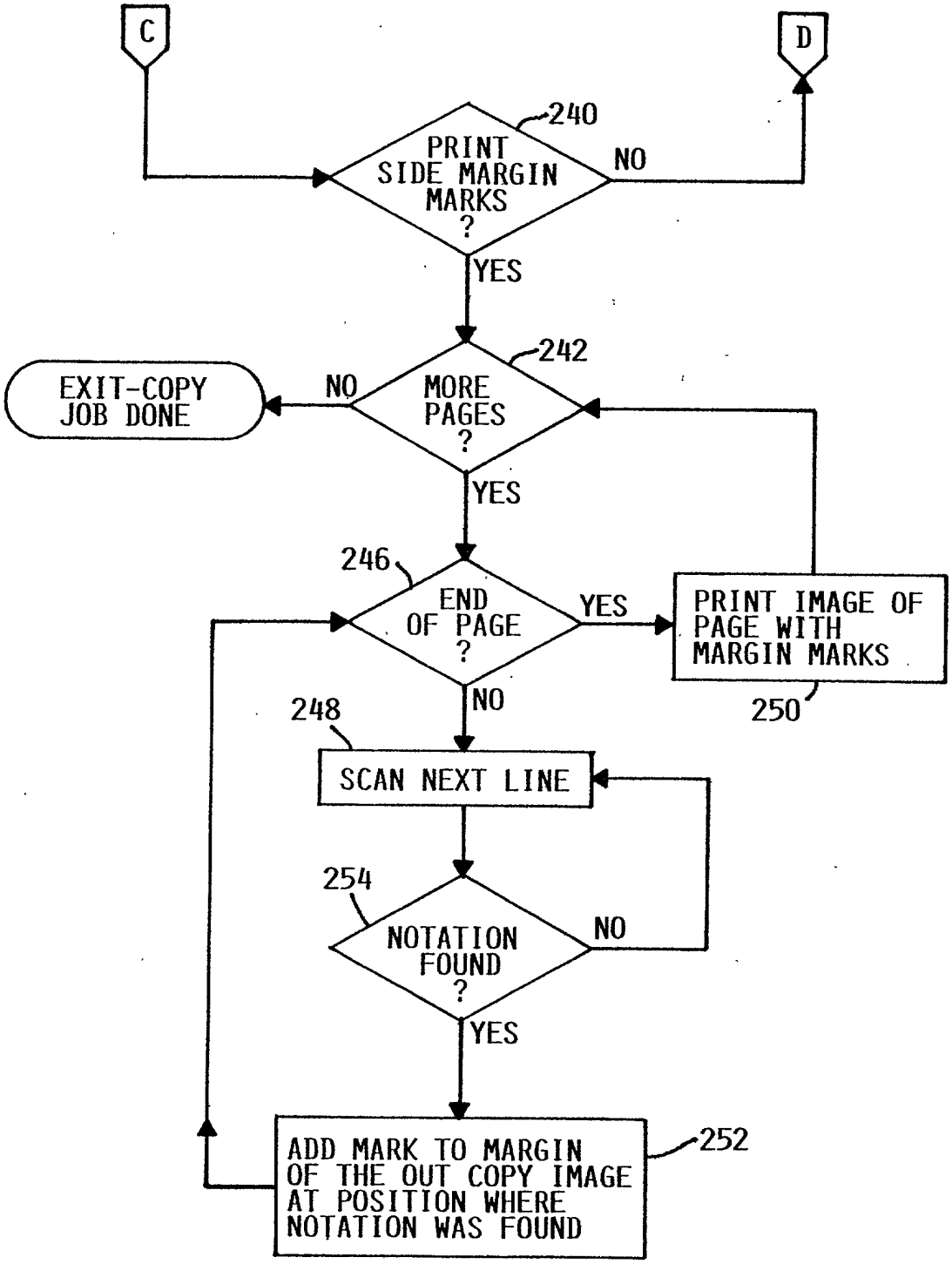
C
D
240
PRINT SIDE MARGIN MARKS ?
NO
YES
242
EXIT-COPY JOB DONE
NO
MORE PAGES ?
YES
246
END OF PAGE ?
YES
PRINT IMAGE OF PAGE WITH MARGIN MARKS
250
NO
248
SCAN NEXT LINE
254
NOTATION FOUND ?
NO
YES
ADD MARK TO MARGIN OF THE OUT COPY IMAGE AT POSITION WHERE NOTATION WAS FOUND
252

FIG. 2C

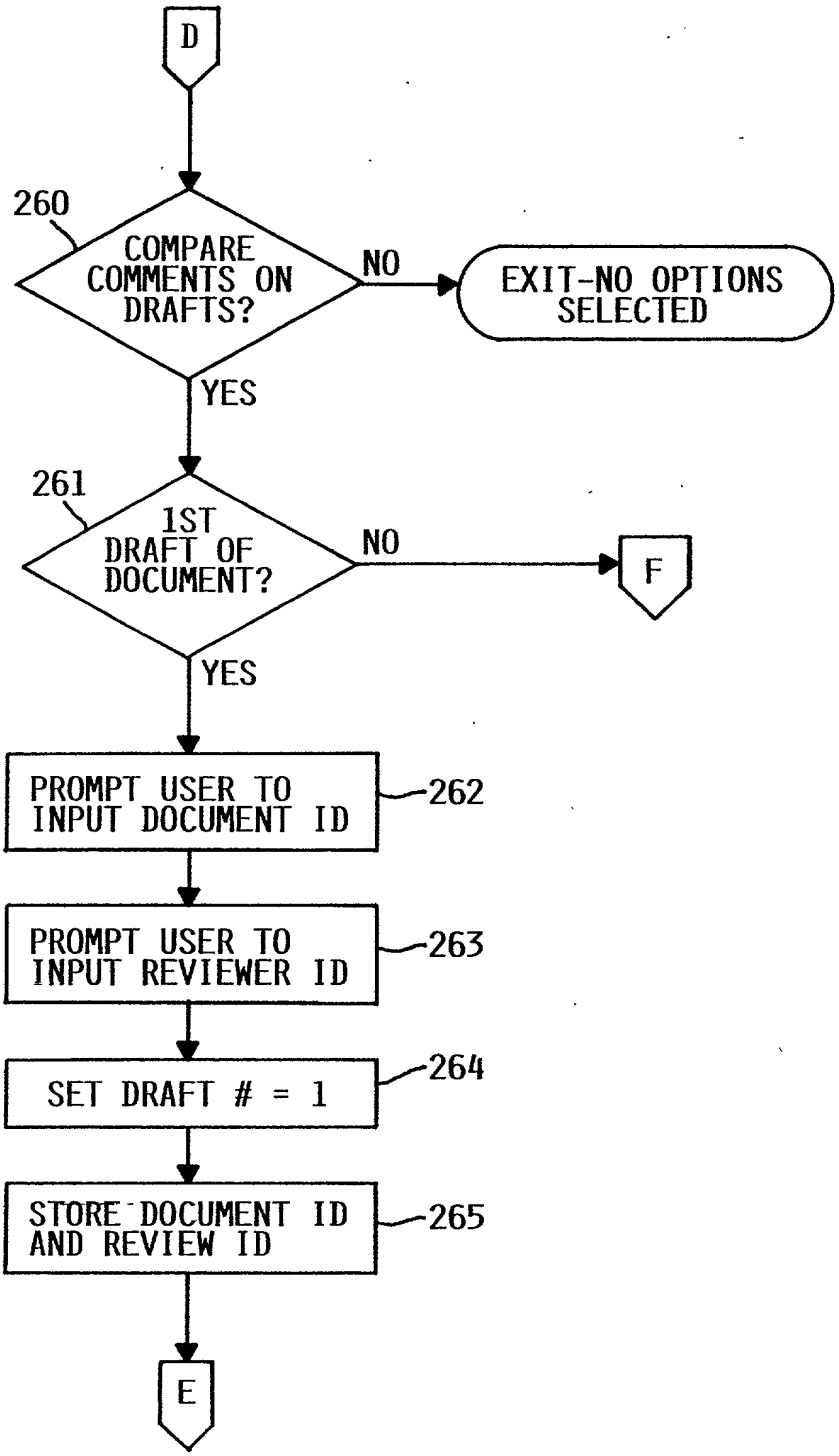
D
260
COMPARE COMMENTS ON DRAFTS?
NO
EXIT-NO OPTIONS SELECTED
YES
261
1ST DRAFT OF DOCUMENT?
NO
F
YES
PROMPT USER TO INPUT DOCUMENT ID
262
PROMPT USER TO INPUT REVIEWER ID
263
SET DRAFT # = 1
264
STORE DOCUMENT ID AND REVIEW ID
265
E

FIG. 2D

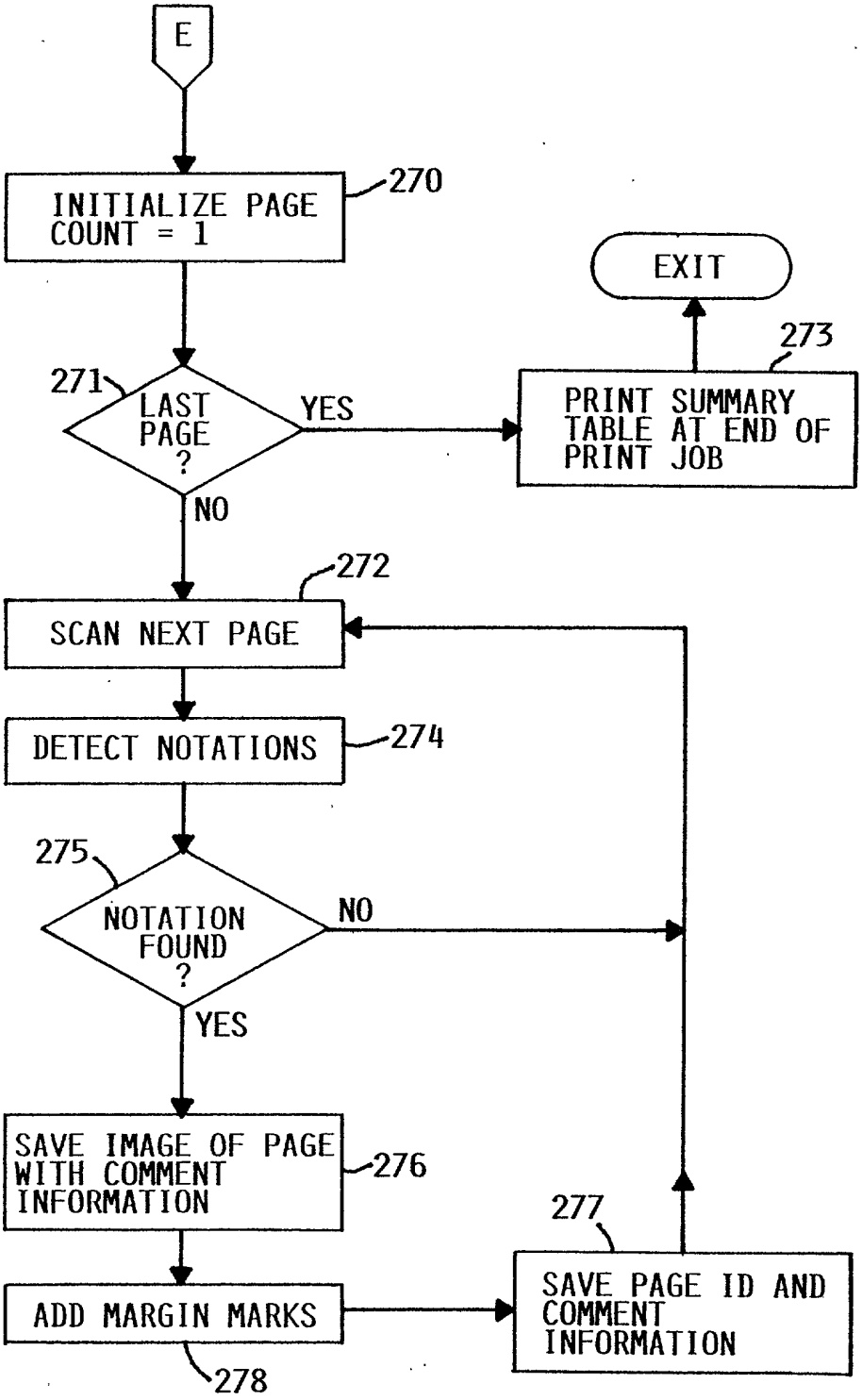
E
INITIALIZE PAGE COUNT = 1
270
EXIT
273
271
LAST PAGE ?
YES
PRINT SUMMARY TABLE AT END OF PRINT JOB
NO
272
SCAN NEXT PAGE
DETECT NOTATIONS
274
275
NOTATION FOUND ?
NO
YES
SAVE IMAGE OF PAGE WITH COMMENT INFORMATION
276
277
ADD MARGIN MARKS
SAVE PAGE ID AND COMMENT INFORMATION
278

FIG. 2E

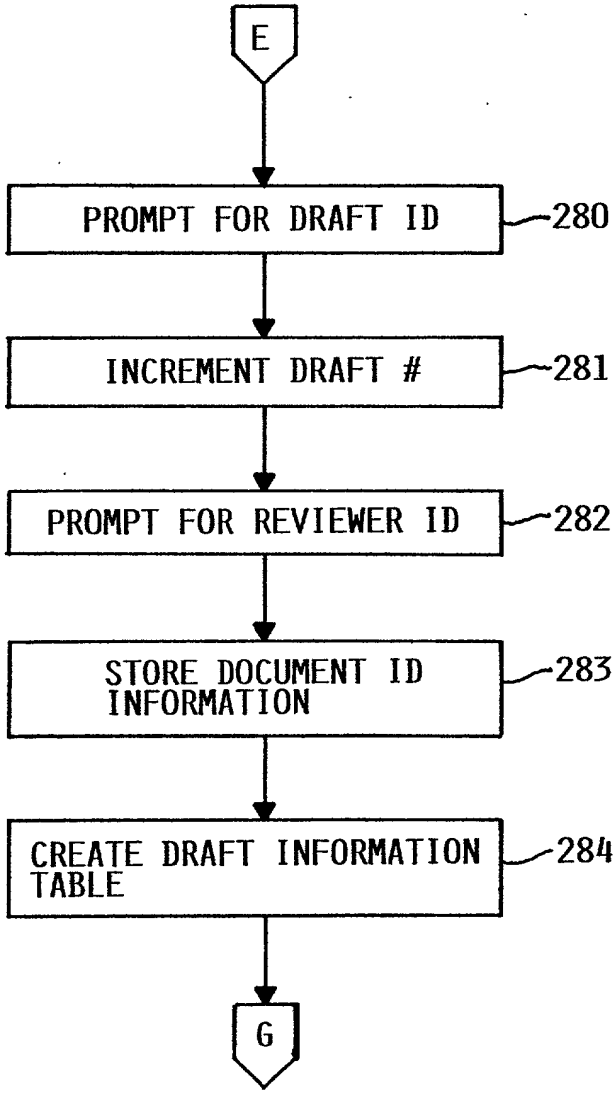
E
PROMPT FOR DRAFT ID
280
INCREMENT DRAFT #
281
PROMPT FOR REVIEWER ID
282
STORE DOCUMENT ID INFORMATION
283
CREATE DRAFT INFORMATION TABLE
284
G

FIG. 2F

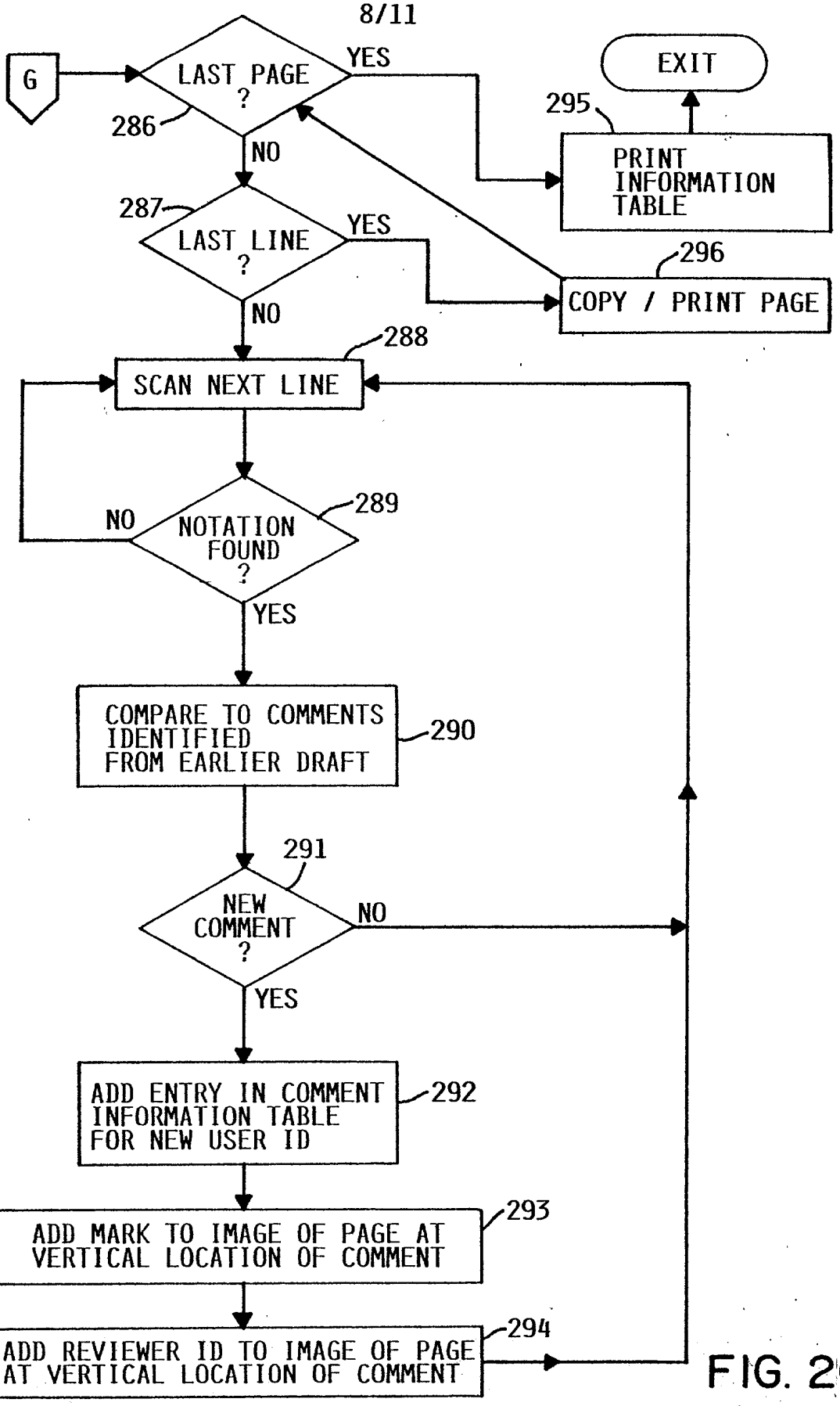
G
LAST PAGE ?
YES
NO
286
EXIT
295
PRINT INFORMATION TABLE
287
LAST LINE ?
YES
NO
296
COPY / PRINT PAGE
288
SCAN NEXT LINE
NOTATION FOUND ?
NO
289
YES
COMPARE TO COMMENTS IDENTIFIED FROM EARLIER DRAFT
290
291
NEW COMMENT ?
NO
YES
ADD ENTRY IN COMMENT INFORMATION TABLE FOR NEW USER ID
292
ADD MARK TO IMAGE OF PAGE AT VERTICAL LOCATION OF COMMENT
293
ADD REVIEWER ID TO IMAGE OF PAGE AT VERTICAL LOCATION OF COMMENT
294

FIG. 2G

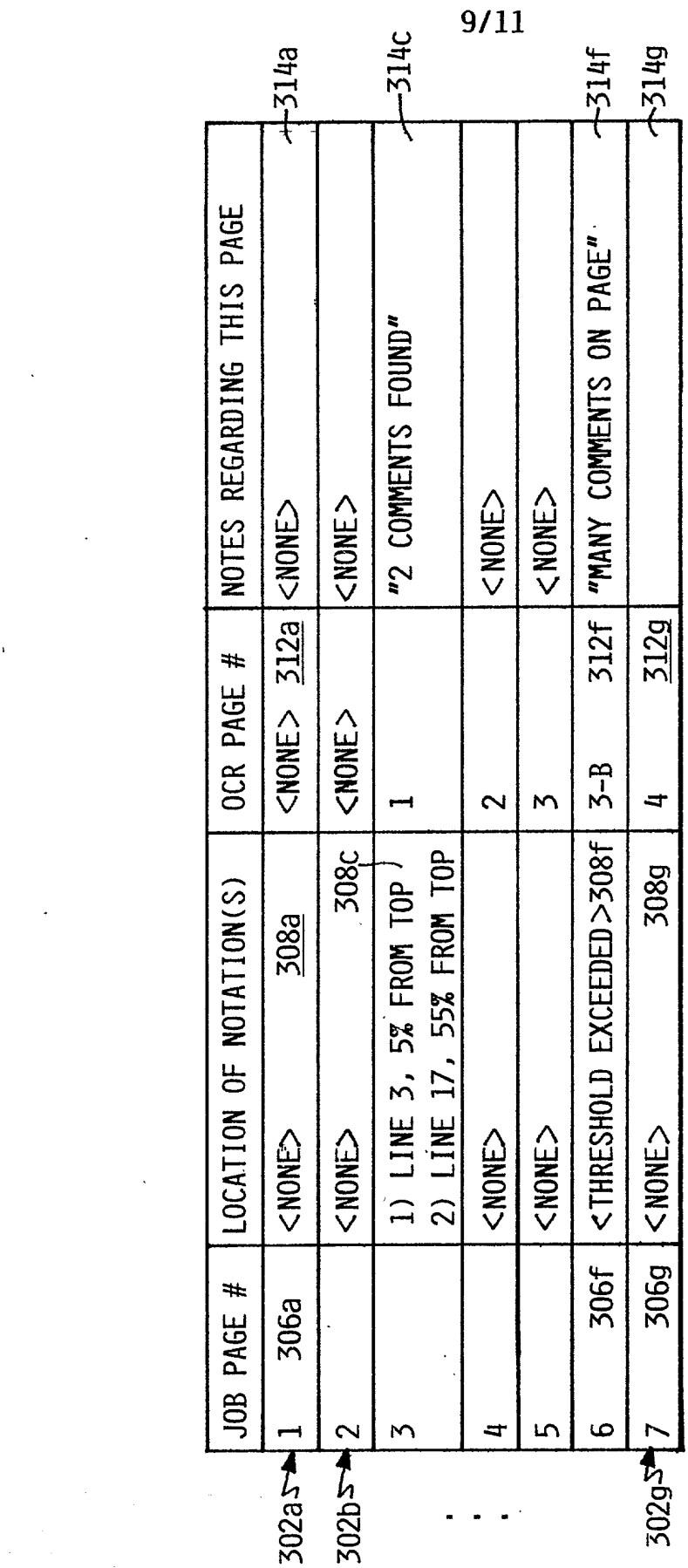
JOB PAGE #
LOCATION OF NOTATION(S)
OCR PAGE #
NOTES REGARDING THIS PAGE
1 306a
<NONE> 308a
<NONE> 312a
<NONE>
314a
2
<NONE> 308c
<NONE>
<NONE>
3
1) LINE 3, 5% FROM TOP
2) LINE 17, 55% FROM TOP
1
"2 COMMENTS FOUND"
314c
4
<NONE>
2
<NONE>
5
<NONE>
3
<NONE>
6 306f
<THRESHOLD EXCEEDED>308f
3-B 312f
"MANY COMMENTS ON PAGE"
314f
7 306g
<NONE> 308g
4 312g
314g
302a
302b
302g

FIG. 3

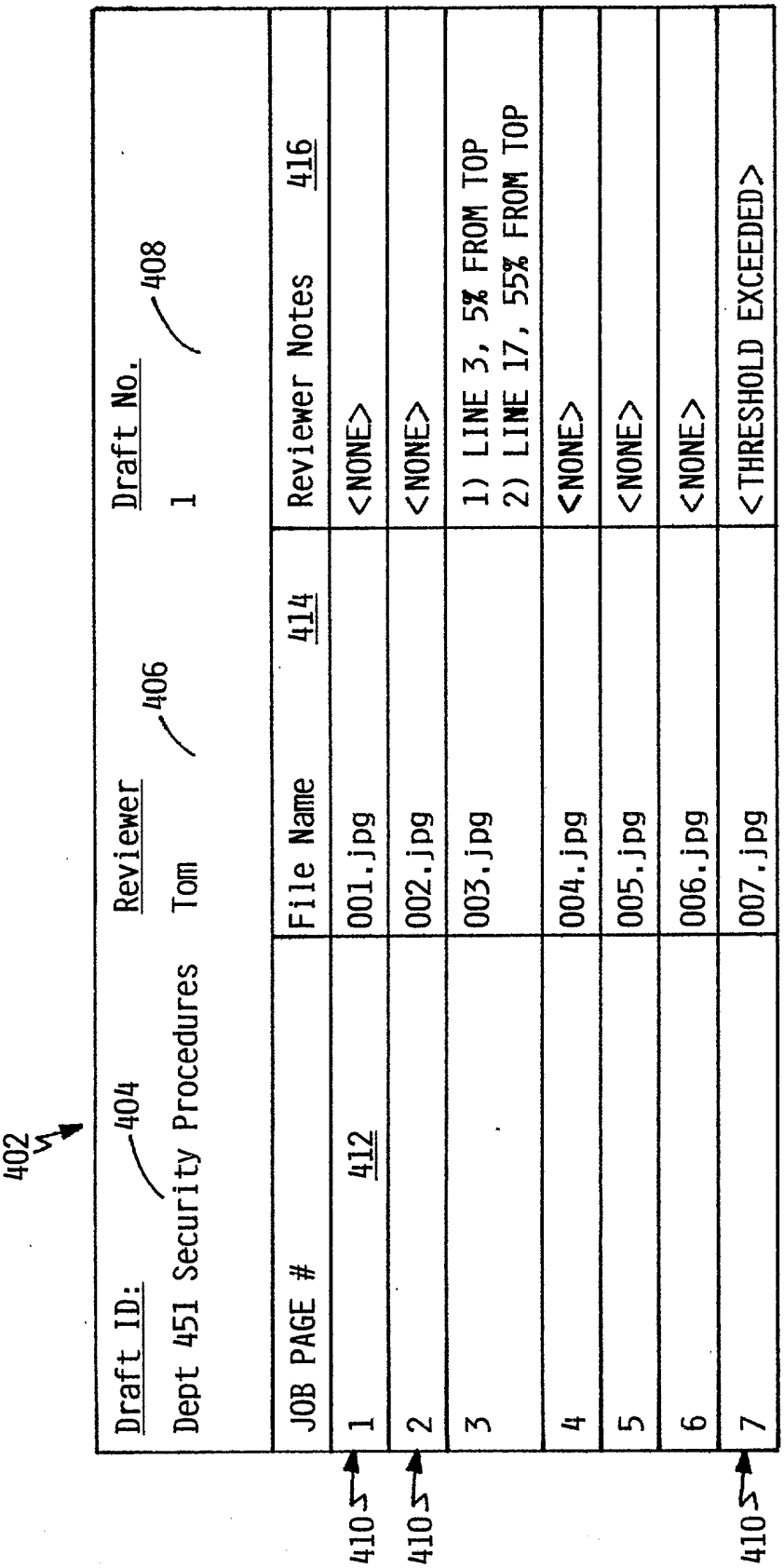
402
Draft ID: 404
Dept 451 Security Procedures
Reviewer 406
Tom
Draft No. 408
1
JOB PAGE # 412
File Name 414
Reviewer Notes 416
1 001.jpg <NONE>
2 002.jpg <NONE>
3 003.jpg 1) LINE 3, 5% FROM TOP
2) LINE 17, 55% FROM TOP
4 004.jpg <NONE>
5 005.jpg <NONE>
6 006.jpg <NONE>
7 007.jpg <THRESHOLD EXCEEDED>
410
410
410

FIG. 4

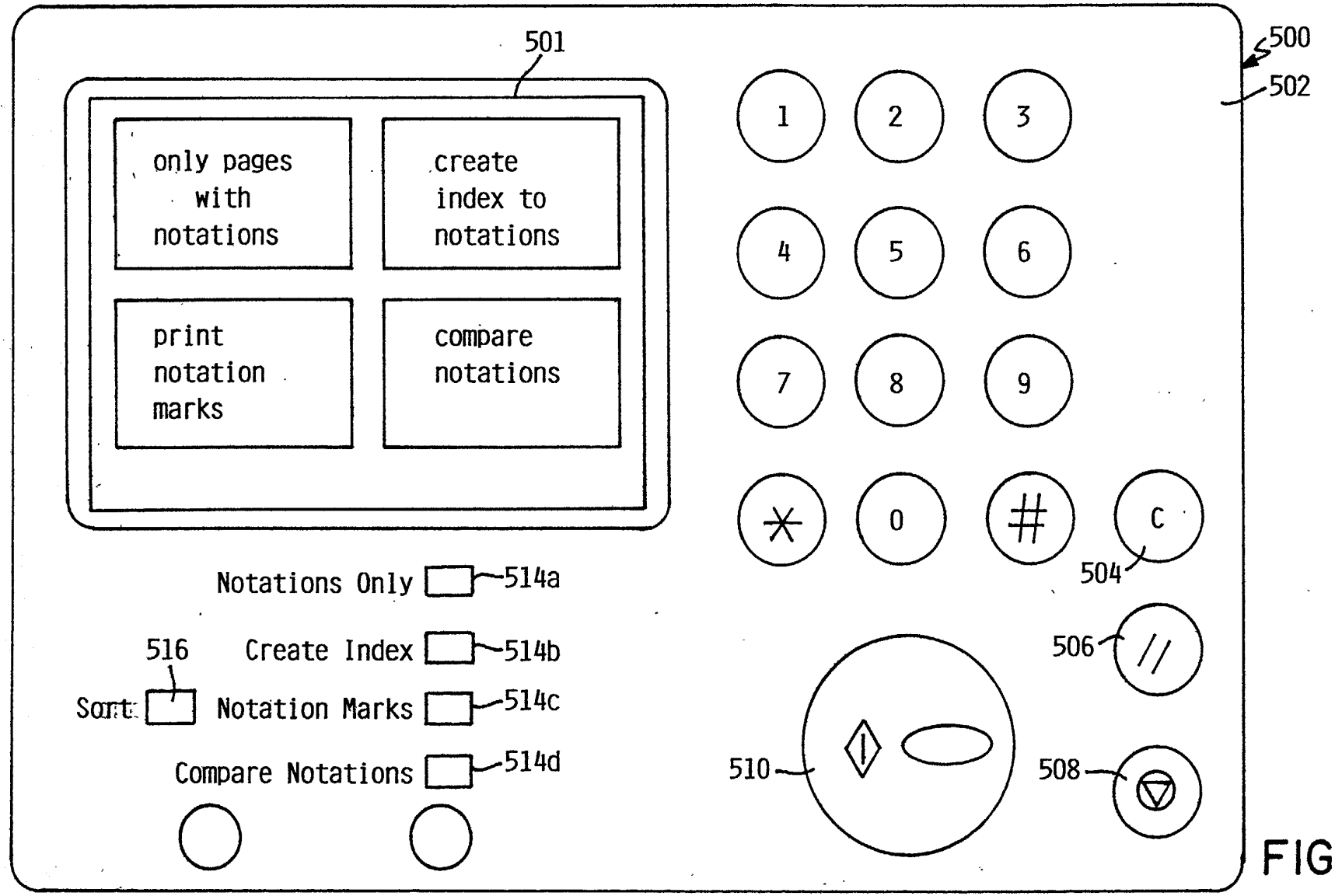
501
500
502
only pages with notations
create index to notations
print notation marks
compare notations
1
2
3
4
5
6
7
8
9
*
0
#
C
504
Notations Only
514a
516
Create Index
514b
Sort
Notation Marks
514c
Compare Notations
514d
506
510
508

FIG. 5